

CLAIMS

1. A system for use in conjunction with a vehicle and a bicycle; the vehicle having a first support surface extending in a plane, and a second support surface; the bicycle having a fork in which a wheel is normally mounted, and an opposing wheel, the
5 system comprising:

a support member adapted to be secured to the first support surface of the vehicle;
and

a mount attachable to the support member and adapted to receive and secure the fork of the bicycle for rotation about an axis extending through the mount such that, with
10 the fork secured to the mount, the bicycle is positioned at a given angle relative to the plane of the first support surface with the opposing wheel of the bicycle located on or adjacent the second support surface.

2. The system as described in Claim 1 further including a component that is
15 adapted to secure the opposing wheel adjacent to the second support surface.

3. The system as described in Claim 2 wherein the component is a strap.

4. The system as described in Claim 2 wherein the component is a flexible
20 cord.

5. The system as described in Claim 2 wherein the component is a bracket.

6. The system as described in Claim 1 wherein the mount includes a quick release mechanism.

7. Bicycle carrier system for use in conjunction with a vehicle and a bicycle, the vehicle having a first support surface extending in a plane, and a second support surface, the bicycle having a fork in which a wheel is normally mounted, and an opposing wheel, the system consisting essentially of: ✓

5 a single support member adapted to be secured to the first support surface of the vehicle;

a mount attachable to the single support member and adapted to receive and secure the fork of the bicycle for rotation about an axis extending through the mount such that the opposing wheel of the bicycle is capable of being positioned to rest on or adjacent

10 the second support surface; and

a component that is adapted to secure the opposing wheel on or adjacent the second support surface.

8. The bicycle carrier system as described in Claim 7 wherein the mount
15 includes a quick release mechanism.

9. The bicycle carrier system as described in Claim 7 wherein the component is a strap.

20 10. The system as described in Claim 7 wherein the component is a flexible cord.

11. The system as described in Claim 7 wherein the component is a bracket.

12. In a vehicle having a first support surface extending in a plane, and a second support surface located in a plane substantially parallel to and below the plane of the first support surface, the improvement comprising: ✓

5 a single support member secured to the first support surface; and
a mount attachable to the single support member and adapted to receive and secure a fork of a bicycle for rotation about an axis extending through the mount such that an opposing wheel of the bicycle is capable of being positioned adjacent the second support surface.

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13. In the vehicle as described in Claim 12, the improvement further comprising a component that secures the opposing wheel of the bicycle to the second support surface.


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14. In the vehicle as described in Claim 12 wherein the first support surface is a roof of the vehicle and the second support surface is a bed.

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15. In the vehicle as described in Claim 12 wherein the first support surface is a side rail of the vehicle and the second support surface is a bed.

16. In the vehicle as described in Claim 15 wherein the bicycle is positioned across the bed of the truck.

17. A vehicle having a roof extending in a plane, the roof having a front edge and a rear edge, comprising: 

5 a single support member adapted to be secured across the roof at or adjacent the rear edge; and

a mount attachable to the single support member and adapted to receive and secure a first portion of an article for rotation about an axis extending through the mount such that, with the first portion of the article secured to the mount, the article is positioned at a given downward angle relative to the plane of the roof with a second portion of the
10 article located on or adjacent a second support surface of the vehicle.

18. A vehicle having a side rail extending in a plane, and a storage bed extending in a plane substantially parallel to and below the plane of the side rail, comprising:

5 a single support member adapted to be secured along the side rail; and
a mount attachable to the single support member and adapted to receive and secure a first portion of an article for rotation about an axis extending through the mount such that, with the first portion of the article secured to the mount, the article is positioned at a given downward angle relative to the plane of the side rail with a second portion of
10 the article located on or adjacent the storage bed.

19. The vehicle as described in Claim 18 wherein the given downward angle is approximately 45 degrees.

15 20. The vehicle as described in Claim 18 wherein the article is a bicycle.

21. In a vehicle having a first support surface extending in a plane, a second support surface located in a plane substantially parallel to and below the plane of the first support surface, and a crossbar secured to the first support surface adjacent a rear edge of the first support surface; the improvement comprising:

5 a mount attachable to the single support member and adapted to receive and secure a portion of a bicycle for rotation about an axis extending through the mount such that an opposing wheel of the bicycle is capable of being positioned adjacent the second support surface; and

10 a component that secures the opposing wheel of the bicycle to the second support surface.

22. In the vehicle as described in Claim 21 wherein the mount is a fork mount and the portion of the bicycle is a fork.